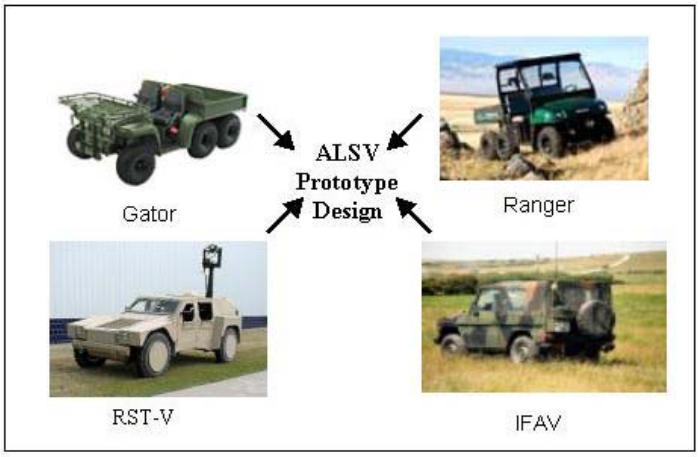
Advanced Light Strike Vehicle (ALSV)

Purpose: Using the most advanced prototyping tools available this effort will produce a *paper design* of an Advanced Light Strike Vehicle. Once the paper design is approved by the Ground Combat Element Advocate the Lab in conjunction with industry will build a working prototype and assess its performance in a wide range of environments and mission scenarios.



Background: The Marine Corps has a requirement for a motorized offensive strike platform transportable in the MV22 tilt-rotor aircraft. The driving design factor and greatest design challenge for the ALSV is the key performance parameter of internal transport in the MV22. Mission effective and mission suitable production vehicles (Commercial Off-the Shelf) transportable by the MV22 do not exist.

Description: An integrated product team comprised of Marine Corps operational subject matter experts, Navy vehicle and aircraft designers, and industry representatives will be formed to develop an ALSV design. The design phase will incorporate proprietary technologies, independent research and development, and emerging technologies to design a working prototype ALSV. Additionally, this team will leverage all lessons learned from past vehicle design efforts, and efforts to adapt commercial vehicles to internal transport aboard MV22s. The combination of technical expertise, extensive vehicle design tools, and state-of-the-art prototyping processes are expected to provide substantial cost avoidance and shortened development time. Once the Advocate approves the *paper design* construction of a working prototype will begin. The prototype vehicle will then undergo assessment in a variety of environments and mission scenarios.

Deliverable Product(s): Paper Design and Prototype ASLV

Milestones:

Action Officer: (703) 784-3425